

Measuring principle

Ultrasonic thickness gauge determines the sample thickness by measuring the amount of time it takes for a sound pulse, generated by an ultrasonic transducer, to travel through a test piece and reflect from the inside surface or a far wall.

Applications

Applicable to measure the thickness of many materials, like steel, cast iron, aluminium, red copper, brass, zinc, quartz glass, polyethylene, PVC, gray cast iron, nodular cast iron. It is widely used in almost all kinds of industries.

Features

- Preset material velocities for easy selection with custom velocity input.
- Inbuilt self-calibrator and simple calibration function.
- Automatic power off.
- Optional PC interface for data logging.



Technical Specifications

Model	Metrix+ UTM 27
Display	4 digit Backlit LCD
Measuring range	0.75 - 400mm (45# Steel) inch/mm switchable
Accuracy	±0.5%n + 0.1mm
Resolution	0.1mm / 0.01mm switchable
Sound Velocity	500 ~ 9000 m/s
Operating conditions	0 ~ 40°C, Humidity < 80%
Power	1.5V x 2 AA batteries
Size & weight	130mm × 76mm × 32mm, 340g(excluding battery)
Standard Accessories	Ultrasonic sensor, couplant, user manual & hard carry case
Optional accessories	<ol style="list-style-type: none"> 1. 6MM probe for small & curved surface/pipes 2. 8MM probe Standard probe 3. HT Ceramic probe for high temperature surfaces 4. PC interface (cable and software) 5. Calibration step block (4step and 10step)